



THE OFFICIAL JOURNAL OF THE RADIO ASSOCIATION OF ERIE

QUA·RAE

S E P T E M B E R

1 9 9 5

IN THIS ISSUE...

The President's Corner
ARRL/VEC Report
Minutes from August Meeting
Contesting
Public Service
ARES/Skywarn
Classifieds
and more....

Hamfest

PA QSO PARTY DINNER

September 9

Radio Association of Erie

Post Office Box 844
Erie, PA 16512
ADDRESS CORRECTION REQUESTED

NON-PROFIT ORGANIZATION
U.S. POSTAGE

PAID

ERIE, PA
PERMIT NO. 266



Mem: F Lic: A
Robert L. Schwimmer N3FAW
129 E. Arlington Rd
Erie, PA 16509-3603

Presidents Corner

Hi:

Hope everyone is able to cope with this heat. But like I always say, we should be happy for shortly we will be saying its too cold.

I just want to remind everyone that the hamfest is coming upon us. If you can get Baked Goods for Debbie it will be greatly appreciated. Don't forget about the dinner at Best Western after the Hamfest. You can contact Chris or Debbie. The cost is \$10.00 a person.

Plans for the Christmas Party are in the making. We will have more on this next month.

VE Report

Submitted by W3CG, Norma Vanderhoff, ARRL VE Liaison

The August test session at Villa Maria was pleasing, in that all who tested, passed an exam of either code or theory.

Those who passed a complete up-grade were Donald Vollant N3KEH of Carnegie, PA, who is now an Advanced, and Kanchana Rimnongrua KB3BJI of Erie, who passed Technician Plus.

Tammy Peters of Cambridge Springs made Technician, and Lindsey Inman of Titusville passed the novice exam.

Still unusual, we had four young ladies who tested, with ages of two being eleven and twelve, and those are Lindsey and Kanchana KB3BJI.

Kanchan is the daughter of Ott N3PTA and Lindsey is a granddaughter of William Lyons WM3G of Titusville.



Remember to get your names in for elections. The last time will be at the October meeting.

Keep cool!!

Next meeting at RAE 7:340 P.M.

Also Hamfest meeting at RAE 6:00 P.M. on Thursday, September 7.

73's

Sue, N3LPO

We won't count the years, but we went to school with Dale Inman, grandfather of Lindsey, at a country school in Lindsey Hollow, four miles out of Corry. The school was the Lindsey and the teacher was Inez Lindsey Blakeslee.

We were thrilled that Bill WM3G has gained the interest of Lindsey in becoming a licensed radio operator, and being a code operator, it is not surprising that a code route was chosen.

The next Villa Maria test session will be held on Saturday, September 2, at 8 A.M., and the following week, Saturday, September 9, exams will also be held at the Erie Hamfest, at 9 A.M. Any questions may be directed to me at (814) 665-9124, or on the local nets.

PUBLISHED MONTHLY BY THE RADIO ASSOCIATION OF ERIE

THE RADIO ASSOCIATION OF ERIE IS A NON-PROFIT CLUB SERVING THE TRI-STATE AREA BY PROVIDING EMERGENCY COMMUNICATIONS DURING A CIVIL DISASTER, AS WELL AS PROVIDING COMMUNICATION SUPPORT FOR PUBLIC SERVICE EVENTS. THE CLUB MEETS AT 7:00 THE FIRST THURSDAY OF EVERY MONTH AT THE RED CROSS CHAPTER HOUSE, 4961 PITTSBURGH AVENUE, ERIE, PA. FOR MEMBERSHIP INFORMATION CONTACT BOB SCHWIMMER, N3FAW AT 866-3027.

THIS NEWSLETTER IS EDITED BY DAVE ROSS, N3PYH. SUBMISSIONS ARE ACCEPTED AND ENCOURAGED. PLEASE MAKE ALL SUBMISSIONS VIA A 5 1/4" OR 3 1/2" PC COMPATIBLE FLOPPY, IF POSSIBLE. TYPEWRITTEN SUBMISSIONS WILL BE ACCEPTED IF PC DISKS ARE NOT AVAILABLE. FOR INFORMATION CALL 454-5407 EVENINGS OR WRITE TO:

DAVE ROSS
N3PYH
639 EAST 29TH ST.
ERIE, PA 16504-1208

OR N3PYH@AOL.COM

THIS IS YOUR NEWSLETTER. PLEASE CONTRIBUTE!

Minutes

Radio Association of Erie Membership Meeting August 3, 1995

N3LPO President, Sue Seyboldt called the meeting to order at 7:40 p.m.

Everyone welcomed our visitors John Case (KB4WK) and Kelly Rinnongrua KB3BJI

KB3ALT Karen Treasurer, itemized the cash flow report for the month of July.

N3FAW Bob Membership Chairman, reported 187 full members, 37 associates, 26 life time, for a total of 250.

N3NTJ Matt Public Service Chairman, reported a donation of \$50.00 for the Quad Races in Edinboro from director Craig Latimer. Upcoming events are the Canoe Races at Findley Lake on August 19th & 20th, Hamot Trials on September 10th, and Erie Marathon on September 17th.

WB3KGT Tony Repeater Chairman, Tony thanks N3SRD Steve, for securing satellite sites on the City of Erie tower. PL will be added to the 82 repeater later. The club generator was repaired at a cost of \$90.00. PL tone of 127.3 Hz may be given over the air now in replacement of saying 3A. The noise on the repeater generated from the tower is the reason for the link satellite system. Satellite antenna will be 50-60 feet off the ground and WB3KGT advises the members not to use the link frequency. WB3KGT advises members to allow for harp tones to give space for breaks. WB3KGT stated that use of autopatch by out of town operators is permissible, but local hams should be members of the R.A.E. to use autopatch since the club pays for the phone line.

N3HPR Tom Hamfest Chairman, spoke of the upcoming Hamfest, how everything is moving along smoothly. There will be a walk through September 6th, 6:30 p.m., at the Franklin Township Fire Hall.

KB3A Chris, PA QSO Symposium will be at Best Western on September 9, 1995 after the Hamfest. Doug Maddox W3HDH, and Harry Bump KN3D to be speakers at the Symposium. Cocktails will be at 5:00 p.m. Dinner at 5:30 p.m. The Dinner will be \$10.00 per person buffet style, Casual dress, and cash bar. Reservations should be in to KB3A no later than August 21, 1995. This is where you can learn and ask questions about the PA QSO Party.

N3BZL Cliff Board Chairman, Election Committee - asking for nominations of members who are interested or know of someone who is interested in being a Club Officer. Please get the names of nominees to Cliff for our upcoming election. Members considered for nomination to date are KB3ALY,

WB3EZY, W3JQV, KB3A, N3FAW, and N3BZL.

W3GZO Dick Education Chairman, stated class rooms are available from September 9th to November 22. Classes tentatively to start September 18th or 20th from 7-9 p.m. We are still in need of instructors.

N3HPR Tom ARES E. C. ask for members for Ares, Ares meeting is scheduled for October 19th at 7:00 p.m. at the Hamot Theater. Emergency management slide show presentation of the US Air crash in Pittsburgh to be shown. On November 11th the S.E.T. to include Western PA and Western New York.

W3CG Norma, VE Exam will be testing on Saturday September 2, at Villa Maria at 8:00 a.m., and at the Erie Hamfest 9:00 a.m. at Franklin Center Methodist Church.

KA3MJN Tom is rebuilding the 64 repeater and is adding a 10 meter link.

K3GYD Don Elmer Chairman if any hams need help in theory, code, or have antenna problems, please give Don a call.

KB3MI Butch proposed the R.A.E. to secure a brick in the Bicentennial Wall at \$29.95 for the Radio Association of Erie, seconded by KB2OUA. Motion passed.

N3NTJ Matt 440 is getting popular so Matt would like to get 440 downtown if interested give Matt a call.

WB3DOM Ron Field Day equipment is in the radio room needs to be put away, we need a key to the storage space. N3HPR Tom stated that Ruth from Red Cross wants a key also.

Additional notes from N3HPR Tom. Flyers are to be sent out next week, we are mailing 5600 flyers.

KB3ALT Karen won the 50/50 drawing.

Motion for adjournment by N3LKW and seconded by WB3KGT meeting adjourned at 8:45 p.m.

Respectfully submitted, N3TIL, Debi Robson, acting Secretary

CONTESTING - PA QSO PARTY STYLE Part 3

by Chris Robson KB3A

In this issue, I will discuss the things to look for during contest operation and in particular the PA QSO Party. When most hams sit in front of their radios, the first thing after turning the rig on is to swing the VFO up and down the band to see who or what stations are on and where they're coming from. Well in Amateur Radio contesting we do the same thing, LISTEN!! You would think that taking the time to listen would be costly because your not making contacts, and contact are points, but that is not true because of you didn't take the time to listen and just started calling and number of things a bound to happen, such as the band might be dead, or and propagation is wrong, or you just missed the rare multiplier you needed and he just QRT'd, to list just a few. Listening is one of the key elements to a successful effort in any venture, whether it be contesting or life.

The next operating tip is watch your log and look for trends in the call areas worked. In the past PA QSO Parties, I have experienced the band change as I operated 40 Meters, going from 8 land call area to 9 land to 0 land and on to 6 and 7 land as the evening grows late. If you follow these condition trends in your log, you can work more multipliers and anticipate and next area you need to concentrate for some of the rarer multipliers (ie.: South Dakota, North Dakota, Montana, etc.) Also by watching your log you can tell when it is time to change bands to stay in a certain area where the contacts are abundant and the band is active. I usually pull out my logs from previous QSO Parties and review the activity and when band changes were made. I also can see where I might have changed bands too soon or changed modes when I would have been better off staying right where is was. Once you start to study all the information in your logs, you can see all the opportunities and the potential pitfalls to look for. This comes with practice and operating, even day to day operating. Take time to review your present log (if you keep one) and you can see operating trends even in casual QSOs.

The third operating tip is to watch out for mobile operators. The hams that run mobile are a special breed of cat that work twice as hard as us "fixed" stations. It pays to take time to listen for weak signals that could potentially be that rare county that you need. If you give room to the mobile operators, they in turn remember you when they move on to the next county, also there might be other stations needing that mobile operator's county, so be prepared for breaking stations, just remember if it's your frequency, your in control of the flow of breaks. If the mobile is beginning to string an

number of contacts, it might be better to give the mobile your frequency and move on, because too many breaking stations will slow your contact rate and you end up in a frequency war where nobody wins.

Next in operating tips, operate all modes, SSB and CW. I have been able to increase my point total much faster using CW due to the additional points offered for CW contacts. Also the amount of times required to get a full exchange is much less on CW than on SSB, Code gets through the QRM! Which mode you prefer is not important, it is important however to get the advantage of working a station 2 times on one band, once on CW and again on SSB. By working both modes your chances of getting more multipliers greatly increases since some operators with weak signals get on Code just to be heard.

Finally, Find your class niche. For the most part 75% of the operators are in the single operator class running low power (less than 150 watts). But if you don't think you can make a big effort or you want to operate but don't have the license class, the multi-operator class is a great choice to make. This is a great opportunity for some of the older hams to invite some of the younger or less experience hams over to the shack and let them operate and you as the experienced operator can be control op and stand back as the young bucks "scream their lungs out"! Then there is the QRP class (5 watts and under) that use operating skill and patience to bang out great scores with the QRP multiplier credit. The op that comes to mind is Ron WB3DOM, who ran QRP class last QSO Party and came in Second in the R.A.E.. There is a class that will fit everyone's operating level and as the skill level increases so does the competitive spirit in your class.

In conclusion, we are winding down to the date of the PA QSO Party and the best way to learn more about this Fantastic operating event is to attend the PA QSO Party Symposium which is scheduled for September 9, 1995 starting time is 5:00 P.M. at the Presque Isle County Inn (I-90 @ Exit 5). Please contact KB3A for reservations and Information.

In the final installment to this contest corner, we will be discussing log posting, dupe sheets, and the final entry, and what is needed. I hope to see you at the Symposium!!

By Frederick O. Maia, W5YI, National Volunteer Examiner Coordinator

Want to hear some interesting conversations? Ask a group of non-Amateurs to describe a ham operator and what they do. I make a habit of doing this every so often. It is amazing what the general public thinks they know about ham radio also how they feel about it.

I can tell you that for the most part, the average person's impression of a ham operator includes big antenna, "talking shortwave" to foreign countries, helping during disasters, knowing Morse code messing up TV reception. Those are by far the most the common responses. The public image of a ham operator seems to that of an electronic loner who confines himself to a little back room.

Few people seem to know that the majority of our operation is actually crystal-clear two-way FM personal communications through repeaters, or computer-to-computer using radio (instead of a telephone) modems. Practically none are aware that hams have two-way satellite or television capability. We Amateurs have done an absolutely lousy PR job! Today there are probably a hundred VHF radio contacts for every one that takes place on the high frequency bands. Still, HF DXing remains a very popular pursuit.

The Radio Spectrum

After a short discussion, I am invariably asked for my definition of an Amateur? I can answer that in just six words! Hams communicate with others using radio. That says it all. The radio spectrum is that invisible long-range expressway system that lies just beyond the audio frequency highway. What makes "radio" truly extraordinary is that it can be used for different things all at the same time...and in the same place! Radios, television, microwave ovens, more can all operate simultaneously. It is merely a case of accessing the right radio range.

Like sound, radio waves are a series of produced vibrations or alternating antenna current cycles. There are just more of them. Some waves are longer and therefore have a relatively low frequency - or number of cycles occurring in a second. Other frequency bands are known as medium, high, very high, ultrahigh, superhigh and extremely high.

Amateurs are only authorized to "hitchhike" on the medium and higher frequency wavelength bands. See Table No. 1. For each wavelength there is a corresponding frequency. It wasn't too many years ago when the high frequency band accounted for nearly all Amateur Radio communications. Today, with the popularity of VHF/UHF repeaters and computer-to-computer "packet radio, most ham operation takes place on the VHF and UHF bands. Our FCC "driver's" license simply allows us to add information to the natural characteristics of generated radio waves. Amateur

communications ride on radio waves from 500 feet in length under a half an inch.

Table No. 1 - Classification of Radio Waves

Frequency	Abbrev-	Frequency	Hamband wavelength
Very Low	VLF	3-30 kHz	None
Low	LF	30-300 kHz	None
Medium	MF	300-3000 kHz	160 meters
High	HF	3-30 MHz	80,40,30,20,17,15,12,10
Very High	VHF	30-300 MHz	6, 2, 1.25 m
Ultrahigh	UHF	300-3000 MHz	70, 33, 23, 13 cm
Superhigh	SHF	3-30 GHz	9, 5, 3, 1.2 cm
Ext. High	EHF	30-300 GHz	6, 4, 2.5, 2, 1 mm

Above 300 GHz less than 1 mm radio waves are measured in meters, centimeters and millimeters. A centimeter is one-hundredth of a meter; a millimeter is one-thousandth. Radio frequency is measured in hertz, kilohertz, megahertz and gigahertz. The physical size of the radio wave gets smaller as its frequency increases.

Sounds travel relatively short distances. Radio frequencies, however, have all sorts of interesting distribution or "propagation" patterns. The ham operator simply takes advantage of them. Some radio waves are halted by buildings and natural terrain, some are bounced around others wander around in apparent unrestricted fashion, only to be captured and later returned to a receiver. The predictable characteristics of a radio wave is primarily dependent upon its frequency.

The ham bands, especially the HF, VHF and UHF allocations, represent an incredibly valuable resource to the Amateur community. They are worth billions of dollars! We tend to think of radio waves as being limitless. Nothing could be further from the truth. They are a fixed natural resource unlike oil and minerals. All of the known useful radio communication wave bands all assigned to a specific radio service! If the ham operator didn't get in on the ground floor, we wouldn't have any spectrum at all! The radio bands are now all allocated and there is a severe shortage of radio spectrum for new and existing services.

Fortunately, due to new technology the usable radio spectrum keep increasing in frequency! But it still is not enough to meet the demand. It is hard to believe that engineers once thought that any wavelength shorter than 200 meters was totally worthless for radio communication purposes, but that was the thinking fifty years ago. In fact, the only reason Amateurs have access to spectrum with shorter wavelengths is that our government originally wanted to support commercial uses of radio. Hams were banished to the useless world above 1500 kHz. When I joined the ham radio ranks in the early fifties, frequencies higher than 50 MHz were considered experimental. Today, frequencies up in the billions of cycles (gigahertz range) can be effectively used to transport

intelligence. It is just accomplished in more novel ways.

Radio comes of age

You hear of antique radios and think the technology is old. But actually radio communication is relatively new! Heinrich Hertz first succeeded in transmitting and receiving radio waves in his laboratory in 1888. The word chosen to mean "cycle per second" became hertz as an honor to Heinrich Hertz. A thousand hertz (strangely, not hertzes) became a kilohertz; a million, a megahertz; a billion, a gigahertz. It wasn't until the 20th century (1901) that Guglielmo Marconi spanned the Atlantic with his wireless telegraph. Broadcasting has only been around for a little more than half a century, television even less! Satellite communications only has been commonplace in the last twenty-five years or so! Who knows what novel mode will be next?

The allocation of radio frequencies consists of dividing the usable spectrum into segments or frequency bands. This is accomplished on a global scale since radio waves do not respect national boundaries. More than 150 national governments are members of the International Telecommunication Union. They agree among themselves on which bands should be assigned to specific uses. The ITU is a specialized agency of the United Nations. These band assignments are influenced by the behavior of radio at different frequencies. For example, the HF bands can be transmitted great distances since they are reflected from the upper atmosphere. Therefore these frequencies are allocated to long range communications such as needed by international broadcasting and the Amateur Service. It is not accidental that the ham bands are all multiples of the lowest frequency Amateur allocation meter band. It was initially found that a 160 meter signal, radiated, to a lesser extent (the second harmonic), in the 80 meter band an 80 meter signal in the 40 meter band so forth. The thinking at the time was to have the Amateur bands harmonically related so that hams would not interfere with other radio services. They could only interfere with themselves!

Radio wave propagation

A number of factors affect radio transmitting distance. Among them are transmitter power, radio frequency, mode of transmission, antenna type and wave propagation. Radio waves behave differently at various frequencies they may travel diverse paths. Signals may circulate along the surface of the earth, directly through space or by reflection from the ionosphere. The ionosphere consists of electrically charged particles that form in the upper atmosphere above the earth. The ionosphere is of great importance in the propagation of radio waves at the high frequency (3 to 30 MHz) range. The intensity of ionization varies at heights from 50 to 200 miles. Time plays a major role in the height, thickness and intensity of these layers the time of day, time of year and time during the 11-year sunspot cycle. It was the Amateur Radio operator who determined the value of the medium and high frequency short waves. Actually there was little choice since the desirable long waves were taken, and given to others.

Radio waves behave in strange ways! Some are absorbed by the ionosphere and some are refracted back to earth much like a stone skipping across the water. Still others pierce right through, only to be captured by an orbiting satellite and retransmitted back to earth. Disturbances on the sun can cause major temporary changes in the ionosphere which can disrupt communications.

Signal travel from transmitter to receiver may not always be the most direct. Routes that go the long way around the earth are known as "long path."

And as if propagation considerations were not enough to deal with, the operator working long distance (DX) must also deal with noise and signal loss QRM (interference), QRN (static) and QSB (fading.) Hams have found they can frequently get through using CW (Morse code) when it is impossible on SSB (single side band voice).

World-wide communications

If you are going to be a serious DXer, you have to resolve yourself to two things. One, you will have to be proficient at CW and two, you are going to have to embark on a course of upgrading your ham ticket to Amateur Extra. Advanced Class hams get substantially more HF phone frequencies. Amateur Extras have a few more voice frequencies, but the big advantage is access to the very desirable first 25 kHz of the 80, 40, 20 and 15 meter bands. Extra Class Amateurs have nearly one third more spectrum in these four bands than the General class operator. If you have your sights set on working 300 countries, then you will need everything possible going for you.

A few more hints for chasing DX. Know your countries and their prefixes be prepared to do a lot of listening. Get yourself a Foreign Radio Amateur Callbook and a list of the Great Circle antenna bearings for your location so you will know where to aim your antenna. A very tolerant wife is a must better still, be single.

Subscribe to DX Bulletins so you will know about the upcoming operations how to exchange QSL cards. You will need them in order to collect your award certificate and your name mentioned in a ham magazine. The ARRL operates an inexpensive outgoing QSL service to DX countries, but it takes months and frequently years for turnaround of your card! Better to send your QSL direct if you need a specific country enclosed "green stamp" (dollar bill) will bring faster results.

IRC's (International Reply Coupons purchased at your post office) are used as money by many DXers. An IRC pays first class postage from any foreign country, but few are used for that purpose. They are just endlessly exchanged between Amateurs. There are also Amateurs that can provide you with return postage stamps for any country. Be thoroughly familiar with your equipment how to work split frequency. Many of the rare DX countries transmit on one frequency listen on another. Using today's HF transceivers

is a breeze. All tuning is automatic! Just set your receiver on the right frequency antenna tuner and transmitter linear power amplifier will tune themselves.

An easy way to work foreign countries is to wait for a DX contest. With the right conditions it can be like shooting fish in a wash basin. Everyone will be trying to work as many different countries as possible. If you are lazy (like me) get a programmable CW keyer and all you will have to do is put in the foreign call sign and push a button and let the microprocessor do the rest.

You will also need a lot of patience and an even temperament to deal with the "big guns", "pile ups" and "DX police." "Big guns" are long time Amateurs who run high power and high gain directional antennas. Competing with them is tough. The "DX police" are those nitwits who patrol the ham bands without authority. A "pile up" is just that stations on the same frequency trying to work a rare "DX-pedition."

And then there are the "DX Spotting Nets" and the "List Takers." I have done it all have DXCC (DX Century Club - worked one hundred confirmed countries) every way imaginable AM phone. But I quit years ago! I don't even know how many countries I collected at that time, but it is certainly more than 200. You may get to a point where it just isn't worth the investment in time, money, effort and especially the aggravation. Ham radio is supposed to be fun leisure-time relaxing hobby.

When discussing long range HF communications, a word about antennas is certainly in order. The most economical way of improving an HF transmitted signal is by using a high gain antenna. Depending upon the number of elements, a directional Yagi antenna versus a wire dipole antenna is about equal to increasing your transmitter power four to nine times.

Assuming no transmission line loss, a 3 element Yagi with an 8 dB gain over a half wave dipole effectively increases your power about five times. A 180 watt "barefoot" transmitter thus becomes a kilowatt! A thousand watt linear amplifier can cost a few thousand dollars but a good antenna is a lot less expensive!

But that is not the only advantage. Directional antennas null the undesirable signals off the back and sides, which enhances the strength of received signals. Quad antennas are better yet! The disadvantage is that directional antennas require a tower and rotor.

The many variables involved the proficiency needed to deal with them made hooking DX fish a very popular sport indeed. Instead of counting fish, you count countries. To be good at DXing, you almost have to commit your life and resources to it many hams do.

So much for my capsule version of ham radio DXing. It is a great pastime for many, but there is more to it than the average person realizes.

Let us fill your prescriptions!



**WE'RE JUST
WHAT YOUR
DOCTOR
ORDERED!**

At the Medicine Shoppe, we offer just what you need to stay healthy ... prescriptions, vitamins, and friendly, professional advice on the medication you're taking!

**TRANSFER ALL YOUR PRESCRIPTIONS
TO THE MEDICINE SHOPPE ...**

It's easy! Just call us, or bring in your old prescription bottle. We'll do the rest ... no inconvenience, no extra charges! And when Medicine Shoppe keeps track of your prescriptions, we maintain personal customer profiles which allow us to check for potential drug interactions.

ASK US . . .

About our money-saving programs:

- National Price Guarantee
- Senior, Group & Baby Discounts
- Generic & Private Label Products
- Free Health Care Screenings

... AND MORE

**WE TAKE TIME TO LISTEN . . .
TIME TO HELP!**

*The Medicine
Shoppe®*

Stephen A. Nehez, R.Ph.

7686 Main Street

Fairview, PA 16415

In the West County Health Center

1995 HAMFEST COMMITTEE

PLEASE VOLUNTEER TO HELP YOUR CLUB

SECURITY: LARRY W3JTF 864-1012

V.E. EXAMS: NORMA W3CG 1-665-9124

VTEST BENCH: GEORGE W3ZQS 838-3391

PUBLICITY: KEVIN WB3KKT 825-5919

FOOD/BEVERAGE: DEBI N3TIL 474-1211

ACCOUNTING: KAREN KB3ALT 825-4333

R.A.E. BOOTH: BOB N3FAW 866-3027, BOB KB3ALY 866-2424

MAILING: DAVE N3EOY 734-4623

TAILGATING: ERIC N3HUM 455-5222, DICK W3GZO 833-7444

EDUCATION/DISPLAY: STEVE N3SRD 774-0147

SETUP/CLEAN-UP: DAVE N3PYH 454-5407

TICKET SALES(INSIDE): PAUL N3UMM 739-2814

PRINTING/DESIGN: TONY WB3KGT 864-4545

PARKING: RICH KB3AAW 734-3979

TICKET SALES(OUTSIDE): CLIF N3BZL 474-1179

PRIZES: CHRIS KB3A 474-1211

ADVANCE TICKET SALES: TOM N3HPR 833-1640

INFO/TALK-IN: TOM KB2OUA PAGER 451-4043 TYPE 146.61, JOE KB3ALU 825-4333

EXHIBITORS: DENNIS KA3WYO 725-9393

VENDOR SET-UP/PARKING: RON WB3DOM 456-0500

Volunteers Needed...

Hamot Time Trials

September 10th

MDA Walk

September 24 8:30 AM

Presque Isle

Crop Walk

October 1, 1-3 PM,

Presque Isle

Alzheimers Memory Walk/Run

October 7 9:30 - 12:00,

Presque Isle

First Night Erie

December 31 (New Years

Eve) 4 p.m - Midnight

Downtown Erie

To volunteer contact Matt, N3NTJ, at 864-3809, or after the Sunday 2 Meter Nets, or sign up at a RAE Club Meeting.

Or E-Mail Matt at N3NTJMATT@AOL.COM or WB3DWL@KNIGHT.GANNON.EDU



NETS

Conneaut Radio Club Net	147.390 FM	Sunday	7:30 PM
Radio Amateurs of Corry	147.090 FM	Thursday	8:00 PM
Ashtabula County ARC Net	146.715 FM	Wednesday	8:00 PM
Tri-State RACES Emergency Net	146.810 FM	Sunday	8:30 PM
ARES/Skywarn Net	146.810 FM	Sunday	9:00 PM
International Simplex Net	146.550 FM	Saturday	8:00 PM
The Aluminum Net	146.550 FM	Saturday	10:00 PM
2 Meter AM	144.450 AM	Monday	7:00 PM
6 Meter AM	50.5200 AM	Wednesday	7:00 PM
6 Meter SSB Net	50.1900 SSB	Sunday	7:00 PM
Lake Erie Emergency Net	29.0000 SSB	Sunday	8:00 PM
Novice-Tech Net	28.4000 SSB	Wednesday	8:30 PM
Radio Amateurs of Corry (HF)	28.3300 SSB	Tuesday	8:00 PM
Flintstone RTTY Net	28.280 RTTY	Saturday	8:30 PM
QCWA National Net	14.3470 SSB	Sunday	2000 UTC
Erie - Fort Pierce Connection	14.3400 SSB	Daily	8:00 AM
County Hunters Net	14.3360 SSB	Daily	Anytime
Mid CARS Net	7.2580 SSB	Daily	Anytime
East CARS Net	7.2550 SSB	Daily	Anytime
South CARS Net	7.2510 SSB	Daily	Anytime
Old Old Timers Club	7.2300 SSB	Thursday	2:00 PM
Rooster Net	3.9900 SSB	Daily	8:00 AM
QCWA Chapter 122 Net	3.9150 SSB	Sunday	9:30 AM
PA Emergency Management Net	3.9050 SSB	Sunday	9:00 AM
160 Meter Net	1.8930 SSB	Daily	7:00 PM

Club Calendar

SEPTEMBER 1995 Notes: SE = Special Event, HF = Hamfest, TST = Contest, QP = QSO Party

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
						H. MAXIM BIRTHDAY CELEBRATION Int Strt Key TST Groton CT SE HAWAII SE
3	4 LABOR DAY	5	6	7	8	9
H. MAXIM BIRTHDAY CELEBRATION Int Strt Key TST Groton CT SE Great American Cattle Drive SE	H. MAXIM BIRTHDAY CELEBRATION Int Strt Key TST Labor Day Sprint	H. MAXIM BIRTHDAY CELEBRATION Int Strt Key TST	H. MAXIM BIRTHDAY CELEBRATION Int Strt Key TST	H. MAXIM BIRTHDAY CELEBRATION Int Strt Key TST	HAMFEST SETUP VOLUNTEERS NEEDED H. MAXIM BIRTHDAY CELEBRATION Int Strt Key TST	RAE HAMFEST PA QSO PARTY SYMPOSIUM H. MAXIM BIRTHDAY CELEBRATION Int Strt Key TST Europe DX TST HorseShoe Curve SE Butler PA SE
10	11	12	13	14	15	16
BUTLER HF H. MAXIM BIRTHDAY CELEBRATION Europe DX TST NthAm Sprint (CW) HorseShoe Curve SE Butler PA SE	Miss America SE	Miss America SE	YLRL Howdy Days Miss America SE	YLRL Howdy Days Miss America SE	YLRL Howdy Days Miss America SE	Scandinavian Activity Day Miss America SE
17	18	19	20	21	22	23
NthAm Sprint (Phone) Scandinavian Activity Day						CQ WW RTTY TST Washington Salmon Run
24	25	26	27	28	29	30
CQ WW RTTY TST Fall Classic Radio xchg Washington Salmon Run	Fall Classic Radio xchg					

One Man's Junk...

Hamfest time is rapidly approaching!

Look around the shack, basement, attic for your unused items gathering dust. Donate salable items for the RAE table.



Call Bob Sherwin KB3ALY 866-2424
or Bob Schwimmer N3FAW 866-3027

DONATIONS ARE TAX DEDUCTIBLE. THE RAE IS IRS APPROVED
ASK FOR A LETTER FOR NEXT YEAR'S TAX RETURN!

RADIO ASSOCIATION OF ERIE



HEATHKIT PACKAGE
SB-220 LINEAR AMPLIFIER, Heathkit 2kw
HM-102 SWR METER
SB604 SPEAKER
HDP-444 DESK MIKE
 All for \$650
 Jake N3MEC 774-2539
 Before 8:00 PM

PACKET STATION
TNC, MFJ 1270C TNC-2 Controller
 with MFJ software and interface cable
DUAL BAND HT, Yaesu FT470 with PA-6 mobile adapter
 and 12 volt gel cell
COMPUTER, Packard-Bell 8088-XT Clone, with 5 1/4"
 floppy, 30 meg hard drive, Ad-Lib compatible sound card,
 640k ram, CGA monitor (switchable between green and
 color)
QUAD ANTENNA, 5 element home brew (QST Jan 95)
 \$400 for all, WILL SELL SEPARATELY
 Jerry Seidl, AA3II, 454-5619

SCANDIA WOOD STOVE

Cast iron 34" by 19" with one side loading door and two front
 doors. Detachable screen for an open fireplace effect.
 Also comes with a back heat shield and a temperature
 gauge for maximum efficiency.
 Nick Cooling, N3TOZ 774-2859

WANTED: YOUR AD

Now accepting your classified advertisement.
 Free to RAE member, \$2.00 per month to non-members.

Drop a card with your classified to

Dave Ross N3PYH
639 East 29th Street
Erie, PA 16504-1208

Announcing:

The Annual ARES meeting will be Thursday,
 October 19 at 7:00. Location will be at the
 Hamot Auditorium. An updated telephone tree
 will be available, and ARES Photo IDs will be
 taken for those ARES members who do not yet
 have one.

An exciting program is planned, so all ARES
 members and potential ARES members mark your
 calendar now for this important meeting.

**ERIE ANIMAL HOSPITAL**

PROFESSIONAL ASSOCIATION

"Quality Care by Pet Lovers . . .
 Just Like You!"

3024 W. 26th Street • Erie, Pennsylvania 16506 • 814 838-7638
 DOWNTOWN OFFICE: 336 E. 12th Street • Erie, Pennsylvania 16503 • 814 838-7638

Art Paavola, D.V.M.

Tom McClain, D.V.M.

Jeff Paavola, D.V.M.

Erie Hamfest '95

Saturday, Sept. 9, 8 a.m. - 2 p.m.

It's worth the trip to Erie



Prizes

Check this top-quality line-up

- First Yaesu FT-840 HF rig
Second Yaesu FT-530 2 m./440 HT
Third Yaesu FT-11R 2 m. HT
Fourth Yaesu FT-11R 2 m. HT
Mobile Check-in Yaesu FT-11R 2m. HT

Winner must be present to win the 12:30 mobile drawing
QSL Drawing

Tickets & \$1 Tailgating

\$4.00 in advance, \$5 at the door

Children under 12 free

Tailgating \$1 per space plus admission ticket

V.E. Exams 9 a.m., Franklin Center Methodist
Church, Route 98 1 mile north of Hamfest

Easy Access

Franklin Twp. Firehall

Easy Access from I-79 & I-90

6 miles south of I-90 Exit 4
or

Take I-79 to Albion Exit 38

Then Route 6N west for 2.5 miles

North on Route 98 for 2.8 miles

Mobile Check-In on 146.01/61

Free Parking

Tailgating Bigger & Better

ARRL Sanctioned

Test bench available

Handicapped accessible

Vendor registration & Advance ticket form

Vendor Registration/Advance Tickets Form

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____

Will you contribute a door prize? ☐ Yes ☐ No

Admissions _____ x \$4 = \$ _____

Tables _____ x \$8 = \$ _____

Electric _____ x \$2 = \$ _____

Tailgating _____ x \$1 = \$ _____

Total \$ _____

Admission required for each person entering grounds

Make checks payable to: The Radio Association of Erie
P.O. Box 844, Erie, PA 16512

Please send a self-address, stamped envelope for
a confirmation and your tickets.

Table reservations first come, first served
and will be held until 9 a.m. the day of Hamfest

Vendor & Tailgating set-up
Friday 6 p.m. until midnight
Saturday starting at 5:30 a.m.

Each 8-foot table \$8

Electric \$2 per table

Tailgating \$1 per space plus admission

No outside food or beverage sales permitted

Contact: Tom McClain, N3HPR
3954 Solar Drive
Erie, PA 16506 814 833-1640

Buy your tickets in advance and save a dollar

- | | |
|---|--|
| ◆ Top quality prizes | ◆ ARRL Sanctioned |
| ◆ Radio, electronic and computer gear | ◆ Mobile check-in on 146.01/61 |
| ◆ Everything imaginable from tailgaters | ◆ Admission \$4 in advance |
| ◆ Great food, reasonable prices | \$5 at the door |
| ◆ Acres of parking | ◆ Children under 12 free |
| ◆ Easy Access from I-79 & I-90 | ◆ Free porter service for inside vendors |

Important information for you

Erie Hamfest '95

Saturday, Sept 9, 8 a.m. - 2 p.m.

◆ ◆ ◆ Special Bonus ◆ ◆ ◆

Pa. QSO Dinner/Symposium
with the Nittany Amateur Radio Club
Saturday night

Erie Hamfest '95
Radio Association of Erie
P.O. Box 844
Erie, PA 16512

Non-Profit Organization
U.S. Postage
Paid
Erie, PA
Permit No. 266

Back for another great year, Great Erie Ox Roast sandwiches